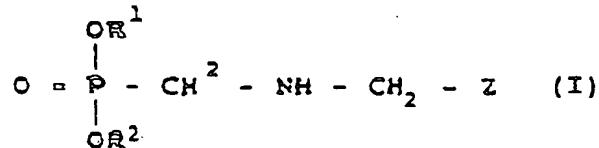


## Claims

1. Herbicidal composition including at least one herbicide of the glyphosate type according to formula I

5



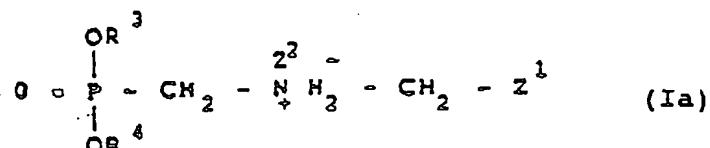
10

in which Z is a cyano group or a group COOR;

R is a hydrogen atom or else is chosen from the lower alkyl, lower alkenyl and lower alkoxyalkyl groups; aryl groups containing 6 to 10 carbon atoms and optionally carrying 1 to 3 substituents chosen independently from the lower alkyl, lower alkoxy, halo, trifluoromethyl, nitro and cyano groups; or else is a compatible cation, capable of forming a salt;

R<sup>1</sup> and R<sup>2</sup> are identical or different and are hydrogen atoms or are chosen from the lower alkyl, aryl, substituted aryl or biphenyl groups or else are compatible cations, capable of forming salts; or else the herbicide of the glyphosate type according to formula Ia

25



30

in which Z<sup>2</sup> is a compatible anion, capable of forming a salt;

R<sup>3</sup> and R<sup>4</sup> are identical or different and represent hydrogen atoms or lower alkyl or aryl groups, which can be substituted, or biphenyl groups;

Z<sup>1</sup> is a cyano group or a group COOR<sup>5</sup>;

R<sup>5</sup> is a hydrogen atom or else is chosen from the lower alkyl, lower alkenyl and lower alkoxyalkyl groups; aryl groups containing 6 to 10 carbon atoms and optionally carrying 1 to 3 substituents chosen independently from the lower alkyl, lower alkoxy, halo, trifluoromethyl, nitro and cyano groups; and at least one herbicide of the phenoxybenzoic type chosen from acifluorfen or the potassium or sodium salt of acifluorfen, characterised in that the herbicide of the phenoxybenzoic type/herbicide of the glyphosate type weight ratio is between 1/12 and 1/80.

40

2. Composition according to Claim 1, characterised in that the herbicide of the phenoxybenzoic type/herbicide of the glyphosate type weight ratio is between 1/15 and 1/50.

45

3. Composition according to Claim 1 or 2, characterised in that the compound of the phenoxybenzoic type is acifluorfen - sodium.

4. Composition according to one of Claims 1 to 3, characterised in that it is in the form of a ready - to - use mixture.

50

5. Process for the post - emergence treatment of weeds, consisting in applying to the latter an effective quantity of a herbicide of the glyphosate type and a quantity of a herbicide of the phenoxybenzoic type according to one of Claims 1 to 4, characterised in that the dose of herbicide of the glyphosate type is between 0.3 and 0.9 kg/ha, preferably between 0.4 and 0.8 kg/ha and advantageously between 0.5 and 0.7 kg/ha, and the dose of herbicide of the phenoxybenzoic type is between 0.005 and 0.1 kg/ha, preferably between 0.02 and 0.08 kg/ha, the herbicide of the phenoxybenzoic type/herbicide of the glyphosate type weight ratio being between 1/12 and 1/80, preferably between 1/15 and 1/50.

6. Composition based on a herbicide of the glyphosate type having a good resistance to leaching by rain, especially when it is present on plant leaves, characterised in that it is in accordance with any one of Claims 1 to 4.

5 7. Composition based on a herbicide of the glyphosate type having a strong activity with regard to plants which are at the end of the growth cycle and/or whose growth is slowing, characterised in that it is in accordance with any one of Claims 1 to 4.

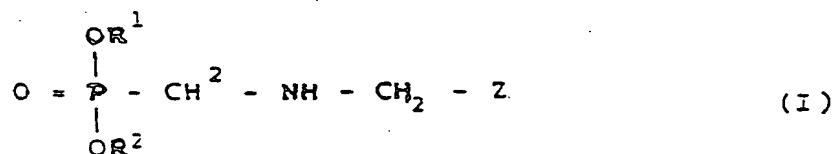
10 8. Composition according to any one of Claims 1 to 4, which is intended to be diluted in water for the purpose of being applied to plants, characterised in that it comprises 10 % to 50 % by weight of the combination of the two active substances of formula (I) and of the phenoxybenzoic type, preferably 15 to 30 %.

## Patentansprüche

15

1. Herbizides Mittel, enthaltend mindestens ein Herbizid des Glyphosat – Typs der Formel I

20



25

in der

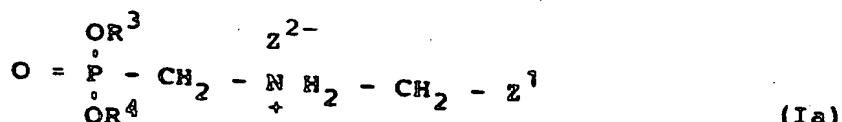
Z eine Cyanogruppe oder COOR bedeutet;

R für ein Wasserstoffatom steht oder aus folgenden Gruppen ausgewählt ist: niedere Alkylgruppen, niedere Alkenyl – oder Alkoxyalkylgruppen; Arylgruppen mit 6 bis 10 Kohlenstoffatomen sowie gegebenenfalls 1 bis 3 Substituenten, die unabhängig voneinander aus niederen Alkylgruppen, niederen Alkoxygruppen, Halogen, Trifluormethyl, Nitro und Cyano ausgewählt sind; oder ein verträgliches Kation ist, das ein Salz bilden kann;

R<sup>1</sup> und R<sup>2</sup> gleich oder verschieden sind und für Wasserstoffatome stehen oder aus niederen Alkylgruppen, Arylgruppen, substituierten Arylgruppen oder Biphenyl ausgewählt sind oder für verträgliche Kationen stehen, die Salze bilden können;

oder das Herbizid des Glyphosat – Typs der Formel Ia

40



45

in der

Z<sup>2</sup> ein verträgliches Anion ist, das ein Salz bilden kann;

R<sup>3</sup> und R<sup>4</sup> gleich oder verschieden sind und für Wasserstoff oder niedere Alkylgruppen oder Arylgruppen, welche substituiert sein können, oder für eine Biphenylgruppe stehen;

Z<sup>1</sup> eine Cyanogruppe oder COOR<sup>5</sup> ist;

R<sup>5</sup> für ein Wasserstoffatom steht oder aus niederen Alkyl –, Alkenyl – oder Alkoxyalkylgruppen, Arylgruppen mit 6 bis 10 Kohlenstoffatomen, die gegebenenfalls 1 bis 3 Substituenten tragen, die unabhängig voneinander für eine niedere Alkyl – oder Alkoxy –, Halogen –, Trifluormethyl –, Nitro – und Cyanogruppe stehen, ausgewählt ist;

und mindestens ein Herbizid des Phenoxybenzoësäure – Typs, ausgewählt aus Acifluorfen oder dem Kalium – oder Natriumsalz von Acifluorfen,

dadurch gekennzeichnet, daß das Gewichtsverhältnis von Herbizid des Phenoxybenzoësäure – Typs zu Herbizid des Glyphosat – Typs 1:12 bis 1:80 beträgt.